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## **CLAIMS:**

What is claimed is:

1. A data networking protocol comprising:

one or more control commands including one or more control commands selectively employed to establish, manage and tear-down a communication session by and between elements of a data network; and

one or more attribute-value pair(s) (AVP), selectively employed by a network element to define one or more parameters of an accompanying control command, the AVPs including one or more mobility management AVPs to facilitate exchange of mobility information between at least a subset of the network elements of the data network participating in a point-to-point component of the communication session.

- 2. A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include an attribute value pair denoting whether an incoming call request is a new call or a handoff.
- 3. A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include an attribute-value pair for each of the one or more deterministic element and/or random element comprising a communication session identifier.
- 4. A data networking protocol according to claim 3, wherein the mobility management attribute-value pair(s) include a COOKIE AVP to communicate the deterministic element of the

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- communication session ID between one or more elements of the point-to-point communication 3 session.
- A data networking protocol according to claim 3, wherein the mobility management
- attribute-value pair(s) include a K\_n AVP to communicate the random element of the 2
- communication session ID between one or more elements of the point-to-point communication
- session.

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- 6. A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include an authentication AVP selectively invoked by one or more of the network elements participating in the point-to-point communication session to authenticate one or more network elements during a handoff of a communication session from one network element to another network element.
- 7. A data networking protocol according to claim 6, wherein the authentication AVP is employed by at least a subset of point-to-point communication session network elements to 2 authenticate an identity of a subscriber unit initiating handoff of a communication session from 3 one servicing basestation to another servicing basestation. 4
- 8. A data networking protocol according to claim 1, wherein the mobility management attribute-value pair(s) include a certification AVP selectively invoked by a basestation element of the point-to-point communication session to obtain a security certificate from a network 3 element to authenticate the basestation to requesting subscriber(s).

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- 9. A data networking protocol according to claim 8, wherein the CERT AVP is selectively
- 2 invoked by the basestation to a network access server (NAS), which solicits an updated
- 3 certificate from a third-party certification agency on behalf of and for delivery to the basestation.
- 10. A machine accessible storage medium comprising a plurality of executable instructions
- which, when executed by an accessing machine, incorporate at least a subset of the mobility
- management AVP's of claim 1 into a communication stack of the accessing machine.
  - 11. A communication signal generated by a network element participant to a point-to-point communication session, the communication signal comprising a data networking protocol according to claim 1, wherein the data networking protocol includes one or more mobility management attribute-value pair(s) enabling mobility management among and between two or more network elements associated with the point-to-point communication session.